

**Quiz 10**  
November 20, 2002

Name \_\_\_\_\_

1. If I gave you the function  $f(x) = 5x^7 - 2.34x^4 + 0.003x^3 - 100.1x + 17$  and asked you to find the absolute maximum and minimum for this function between  $x = 0$  and  $x = 4$  what would you do? List the steps you would take. DO NOT ATTEMPT TO CALCULATE.

2. Consider the function  $g(x) = 0.04x^3 - 0.88x^2 + 4.81x + 12.11$ .

(a) Find the relative maximum(s) and relative minimum(s) of  $g$ .

(b) Find the absolute maximum and absolute minimum of  $g$  between  $x = -2$  and  $x = 10$ .